

Table 2. *Geological, geophysical, and geochemical characteristics of favorable areas, and the probability of undiscovered deposits within the favorable tract for porphyry copper-gold deposits in the Lares-Adjuntas areas, Puerto Rico*

Tv, Tertiary volcanic and sedimentary rocks; Ti, Tertiary porphyritic intrusive rocks; Kv, Cretaceous volcanic rocks; Ki, Cretaceous plutonic rocks of Utuado batholith; TKd, Tertiary and Cretaceous diorite intrusions. Stream sediment geochemical values in parts per million; Cu, copper; Zn, zinc; Au, gold; Ag, silver; Fe, iron; Mo, molybdenum; Mn, manganese. Cp, chalcopyrite; py, pyrite; mt, magnetite; ND indicates no data.  $p[D]$  is the probability of an undiscovered deposits.

Map no.	Name	Geology	Aeromagnetic anomalies	Mineral occurrences	Stream sediment geochemistry	$p[D]$
1	Magos	Tv, poorly exposed	5 highs, 500-1000 m diam. suggest igneous intrusions	None known	ND	0.01
2	Piletas	Covered by Lares Lms. Located on Tanama-Laundry Cr. trend	4 highs 500-1000 m diam. similar to pattern over known deposits	None known	ND	0.50
3	Lares East	Tv, poorly exposed	High	None known	ND	0.01
4	Laundry Creek	Ti stock, potassic alteration in small area	Complex pattern of high and low anomalies	Cp in quartz stockwork. Indicated 5 to 10 million tonnes at >0.4 percent Cu	Cu >1,000; Au, 0.006-0.01; plus Mo, Zn, Pb, Ag, and Mn	0.1
5	Matilde	Ti stock, no alteration, poorly exposed	Broad high	None known	Cu, 70-300; Zn, 300-500	0.05
6	Platanos	Tv, plus small intrusives in a broad area of propylitic and phyllic alteration. Two prominent unaltered Ti stocks.	Broad low, 1.5 x 6 km. West part correlates with alteration. Highs correlate with Ti stocks	Cp in small veins	Cu, 300-1,000; Zn, 100-300; Mo downstream	0.3
7	Copper Creek	Kv, Ti stock, potassic alteration	Small high	Quartz-mt stockwork, Cu stains. Ore-grade Cu in one drill hole	Cu >1,000; Au, .006-.01	0.1
8	Río Piedras	Mainly Tv, poor exposures	High	None known	Cu 70-300	0.01

9	Criminales East	Mainly Kv, small Ti bodies. Extensive breccia, 0.6 x 1.5 km. Phyllic alteration	Broad low, 1.5 x 2 km in area that interrupts a trend of highs.	Up to 0.34 percent Cu in outcrop	Cu 300-1000; Zn 300-500; Au, .006-.01; Mn >2500	0.6
10	Copper Creek Southeast	Ti stock, local potassic alteration	South flank of arcuate high	None known	Cu, 300-1,000	0.1
11	Tanamá	Ti stock intruding Kv, potassic alteration on north side, phyllic and argillic to south	Strong high	Known porphyry copper-gold deposit	Cu, 300-1,000 on northeast, weak Zn	0.00
12	Helecho	Ti stock, potassic alteration, surrounded by Tv with phyllic and argillic alteration	Isolated high surrounded by lows	Known porphyry copper-gold deposit, Reserves not published	Cu, 70-300; Mn >2,500 weak Zn	0.95
13	Cerro La Mira	Ti, poorly exposed	high	none known	Cu, 70-300; Zn 100-300	0.05
14	Helecho East	no exposures	high	none known	weak	0.01
15	Portillo West	Tv, poorly exposed	Small high, surrounded on west by lows	none known	ND	0.01
16	Guayabo Dulce	Tv, alteration	No significant character	none known	Cu, 70-300	0.01
17	Palo Seco	Ti, poorly exposed	high	none known	weak	0.01
18	Upper Tanamá	Tv, poorly exposed	No significant character	none known	Cu, 300-1,000; Mn >2,500	0.2
19	Cerro Lloroso	Ti stock	high	none known	Cu 70-300	0.01
20	Río Arecibo	Large, complex Ti porphyry stock	high	Cp and py in veins	Cu, 70-300; Au, .006-.01; Mn >2,500 plus Zn, Ag	0.2
21	Pellejas	Ti, Kv, and Tv	Isolated high on south side	Cp and py in veins	Cu 300-1,000; Mn >2,500	0.2
22	Río Viví	Ti stocks intruding Kv and Tv. Widespread alteration	Elongate high on south side	Known porphyry copper-gold deposit	Cu, 300-1,000 on south side	0.00
23	El Blanco	Small Ti stock	high	Cu stains	weak	0.01
24	Jauca	Small Ti stocks	highs	Fe skarn	Au, .006-.01; weak Cu	0.05

Table 2